

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

ARMAND, *ET AL.*

Patent No.: 6,514,640

Issued: FEBRUARY 4, 2002

**Title: "CATHODE MATERIALS FOR
SECONDARY (RECHARGEABLE)
LITHIUM BATTERIES"**

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Group Art Unit: 1745

Confirmation No.: 2372

Examiner: CHANEY, CAROL

Atty. Docket No.: 078963.0111

**ATTN: Certificate of Correction Branch
Honorable Commissioner of Patents
P. O. Box 1450
Alexandria, VA 22313-1450**

**CERTIFICATE OF FILING ELECTRONICALLY
VIA EFS 37 C.F.R. § 1.8**

I HEREBY CERTIFY THAT I HAVE A REASONABLE BASIS FOR
BELIEF THAT THIS CORRESPONDENCE IS BEING SUBMITTED TO
THE UNITED STATES PATENT AND TRADEMARK OFFICE VIA
EFS (ELECTRONICALLY) ON THE DATE INDICATED BELOW,
AND IS ADDRESSED TO:

ATTN: CERTIFICATE OF CORRECTION BRANCH
COMMISSIONER FOR PATENTS
PO BOX 1450
ALEXANDRIA, VA 22313-1450

/PAUL R MORICO/
Paul Morico

DATE OF SUBMISSION: APRIL 6, 2012
ELECTRONIC FILING (EFS)

**REQUEST FOR CERTIFICATE OF CORRECTION
PURSUANT TO 37 C.F.R. § 1.323**

Dear Honorable Commissioner:

Enclosed is a Certificate of Correction, Form PTO-SB/44, for U.S. Patent No. 6,514,640, issued February 4, 2003. The following errors appear in the issued patent due to mistake by Applicants:

Column 1, line 24

After “for use as”, insert --an--.

Column 2, line 44

Before “and an electrolyte”, insert --cathode-- and delete “catrode”.

Column 2, line 51

After “better lithium ion”, insert --diffusivity-- and delete “diffusitivity”.

Column 2, line 57

Before “tetrahedra can”, insert -- PO_4^{3-} -- and delete “ PO_4^3 ”.

Column 2, line 58

Before “tetrahedra.”, insert -- VO_4^{3-} -- and delete “ VO_4^3 ”.

Column 3, line 23

After “on the initial”, insert -- P^{5+} -- and delete “ p^{5+} ”.

Column 3, line 24

Before “tetrahedra”, insert -- SiO_4^{4-} -- and delete “ SiO_4^{2-} ”.

Column 3, line 33

Insert -- $p + s + v < 1$;-- and delete “ $P + s + v < 1$,”

Column 3, line 35

Insert -- $3 + s - p = x - y + 2 + t + 2q + 3r$ -- and delete “ $3 + s - p = x - y + t + 2q + 3r$ ”.

Column 3, line 39

Before “and s may vary”, insert --p-- and delete “r”.

Column 4, line 1

Before “The phrase”, insert --described.-- and delete “describe.”

Column 4, line 7

Before “a vanadium oxide”, insert --dichalcogenide,-- and delete “dichalcogenide,”.

Column 4, line 43

Before “a salt, the cation”, insert --contains-- and delete “contain”.

Column 4, line 47

Before “or a dialkylether”, insert --tetraalkylsulfamide-- and delete “tetraalkylsulfamiide”.

Column 4, line 58

Before “on a transparent”, insert --layered-- and delete “layed”.

Column 4, line 62

Before “nanometers”, insert -- 10^3 -- and delete “ 10^4 ”.

Column 5, line 9

After “polyethylene”, insert --terephthalate-- and delete “terephatalate”.

Column 6, line 17

After “gives the undesired”, insert --monoclinic-- and delete “monoclinc”.

Column 6, line 20

Before “and $\text{NH}_4\text{H}_2\text{PO}_4 \cdot \text{H}_2\text{O}$ ”, insert -- Na_2CO_3 , $\text{Fe}\{\text{CH}_3\text{COO}\}_2$ -- and delete “ NaCO_3 , $\text{Fe}\{\text{CH}_2\text{COOH}\}_2$ ”.

Column 6, line 54

After “formula”, insert -- $\text{A}_{3-x}\text{V}_2(\text{PO}_4)_3$ -- and delete “ $\text{A}_3\text{-V}_2(\text{PO}_4)_3$ ”.

Column 7, line 24

After “ $0.05 \text{ mA} \cdot \text{cm}^{-2}$ ”, insert -- $(2.1 \text{ mA} \cdot \text{g}^{-1})$ -- and delete “ $(0.95 \text{ mA} \cdot \text{g}^{-1})$ ”.

Column 9, line 22

Before “anode”, insert --metallic-reductant-- and delete “metalic-reductant”.

Column 11, line 21

After “cells of the”, insert --invention.-- and delete “insertion.”.

Column 12, line 5

Before “or the more open”, insert -- $\text{LiM}(\text{PO}_4)$ -- and delete “ $\text{LiN}(\text{PO}_4)$,”.

Column 12, line 7

Before “for the ordered”, insert -- $\text{LiM}(\text{PO}_4)$ -- and delete “ $\text{LiN}(\text{PO}_4)$ ”.

Column 12, line 36

After “site occupancy”, insert --and electroneutrality-- and delete “an delectroneutrality”.

Column 12, line 44

Insert $-3 + s - p = x - y + 2 + t + 2q + 3r$ and delete “ $3 + s - p = x - y + t + 2q + 3r$ ”.

Column 12, line 47

Before “and v may vary”, insert $-r$.

Column 12, line 48

Before “and s may vary”, insert $-p$ and delete “r”.

Column 13, line 4

After “0.05 mA_xcm⁻²”, insert $(2.1 \text{ mA} \cdot \text{g}^{-1}, 1.13 \text{ mA} \cdot \text{g}^{-1}, \text{ and } 0.95 \text{ mA} \cdot \text{g}^{-1},$ respectively, and delete “(0.95 mA_x g⁻¹ and 1.13 mA_x g⁻¹, respectively,”.

Column 13, line 6

Before “respectively, where”, insert Li_xFePO_4 and delete “LiFePO₄,”.

Column 13, line 6

After “respectively, where”, insert $0 \leq x \leq 0.5$ and delete “ $0 \leq x \leq 5$ ”.

Column 13, line 60

After “as seen in FIGS.”, insert $-2A-2C$ and delete “ $2A-2C??$ ”.

Column 14, line 4

After “the pristine olivine structure of”, insert $\text{LiM(PO}_4\text{)}$ and delete “LiN(PO₄)”.

Column 14, line 8

Before “and electronic conductivity”, insert diffusivity and delete “diffusitivity”.

Column 14, line 52

After “to exhibit”, insert phase transition and delete “phasetransition”.

Column 16, line 6

Before “C. under argon”, insert $\text{then } 700^\circ$ and delete “the 70020”.

Column 16, line 8

Insert $\text{Li}_{1.1}\text{Fe}_{0.8}\text{Ti}_{0.1}\text{P}_{0.8}\text{Si}_{0.2}\text{O}_4$ and delete “ $\text{Li}_{1.1}\text{Fe}_{0.8}\text{TiP}_{0.8}\text{Si}_{0.2}\text{O}_4$ ”.

Column 16, line 10

After “in acetonitrile to”, insert $\text{Li}_{0.1}\text{Fe}_{0.8}\text{Ti}_{0.1}\text{P}_{0.8}\text{Si}_{0.2}\text{O}_4$ and delete “ $\text{Li}_{0.1}\text{Fe}_{0.8}\text{TiP}_{0.8}\text{Si}_{0.2}\text{O}_4$ ”.

Column 17, line 4

After “other for”, insert -- $1 < x < 2$ -- and delete “ $1 < X < 2$ ”.

Column 17, line 21

Before “gives a V vs. x curve”, insert -- $\text{Li}_{1+x}\text{FeNb}(\text{PO}_4)_3$ -- and delete “ $\text{Li}_{1+x}\text{Fenb}(\text{PO}_4)_3$ ”.

Column 17, line 27

Before “at 1.7 V”, insert -- $\text{Nb}^{4+}/\text{Nb}^{3+}$ -- and delete “ $\text{Nb}^{4+}/\text{Nb}^{5+}$ ”.

Column 17, line 31

Before “sodium analog”, insert --monoclinic-- and delete “monoclihnlic”.

Column 17, line 35

After “for the”, insert --rhombohedral-- and delete “rhomobhedral”.

Column 17, line 35

Before “(0.95”, insert -- mA.cm^{-2} -- and delete “ mA.cmM^{-2} ”.

“Whenever a mistake of a clerical or typographical nature, or of minor character, which was not the fault of the Patent and Trademark Office, appears in a patent and a showing has been made that such mistake occurred in good faith, the Director may, upon payment of the required fee, issue a certificate of correction, if the correction does not involve such changes in the patent as would constitute new matter or would require reexamination.” MPEP § 1481 (citing 35 U.S.C. § 255).

Applicants provided additional explanation regarding many of the above-identified errors in related Application No. 11/179,617 in a Response to Final Office Action filed on September 24, 2009 (p. 7) and in a Supplemental Response to Final Office Action filed on August 13, 2010 (pp. 7-9), which were accepted by the Examiner in the Office Action mailed September 1, 2010. Applicants respectfully assert that the errors for which corrections are sought are typographical errors, or errors of a minor character, and further respectfully assert that the proposed corrections do not constitute new matter or require reexamination, as recognized by the Examiner by his acceptance of Applicants’ additional explanations in the Office Action Mailed September 1, 2010. Therefore, Applicants respectfully request that the errors appearing on the patent be corrected.

The Commissioner is hereby authorized to debit the Deposit Account of Baker Botts L.L.P., Deposit Account No. 02-0383, Order Number 078963.0111 the amount of \$100.00 for the surcharge set forth in 37 C.F.R. 1.20(a). Applicants believe that there are no additional fees due in association with the filing of this request. However, should the Commissioner deem that any other fees are due, Applicants respectfully request that the Commissioner accept this as a Petition Therefor, and direct that any additional fees be charged to Baker Botts L.L.P. Deposit Account No. 02-0383, Order Number 078963.0111.

Respectfully submitted,

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